



## Service Bulletin

### Inspection and Replacement of Aluminium Carrythrough of Main Landing Gear (for aircraft equipped with alu/steel landing gear)

**MANDATORY**

#### Symbols:

Please pay attention to the following symbols throughout this document emphasizing particular information.

- ▲ WARNING: Identifies an instruction, which if not followed, may cause serious injury or even death.
- CAUTION: Denotes an instruction which if not followed, may severely damage the aircraft or could lead to suspension of warranty.
- ◆ NOTE: Information useful for better handling.

#### 1. General

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Release date: November 20<sup>th</sup> 2009

Date of effect: November 20<sup>th</sup> 2009

Compliance: next 50 landings, or immediately if there has been a hard landing in the past

Release Number: SB-001-landing-gear

Superseded notice: none

Models affected: G-3, G-3/600, GX

Affected S/N: all aircraft equipped with alu/steel landing gear



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Reason: On some aircraft cracks have been detected on the main gear carrythrough made of aluminium.

Subject:

- Check carrythrough for cracks or damages
- Exchange carrythrough after defined lifetime
- correction of tire pressure

Time required:

- for assembly/disassembly of landing gear belly fairing and checking the landing gear 0,5h.
- for exchanging the main gear carrythrough 2,5h

### 2. Material Information

Tools needed:

- Standard Tools
- Mirror

Parts needed:

- no findings: none
- in case of findings: assembly main gear carrythrough
- in case of exchange: assembly main gear carrythrough

### 3. Compliance

Schedule of Maintenance:

- immediately if there has been a hard landing in the past, otherwise
- within the next 50 landings, and
- during scheduled maintenance (100h-check), and
- during annual condition inspection, and
- after hard landing

Schedule of Replacement:

- as soon as practical, but at the latest
- after detection of cracks, or
- after 800 landings in total, whatever comes first.

Level of maintenance:

- no findings: low
- in case of findings: medium
- in case of exchange: medium

Certification required:

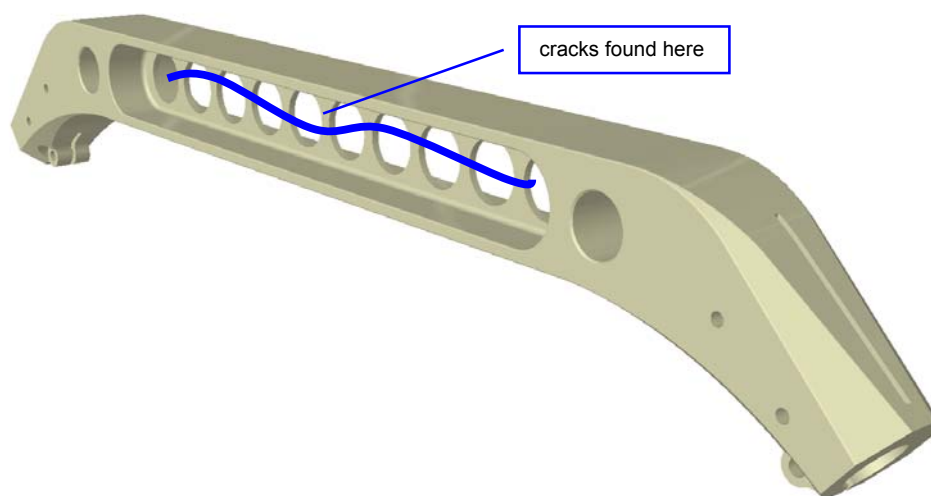
- A&P Mechanic, or
- LSA Repairman, or
- Part 145 Repair Station

◆ NOTE: Please contact your Remos Service Center in case of doubt.

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### 1. INSTRUCTIONS:

- a. Detach landing gear belly fairings. To do so detach the hex socket screws of the belly fairings and slide them down the landing gear leg fairing.
- b. Inspect the main gear carrythrough for cracks. Especially watch for damages and cracks near the weight reduction holes.



- c. In case that no cracks have been found attach the belly fairings again.
- d. Make a logbook entry of this check.
- e. In case that damages are detected, contact your REMOS Service Center ([www.remos.com](http://www.remos.com)). The landing gear carrythrough must be replaced. Do not fly the aircraft.

### 2. INSTRUCTIONS:

Reduce tire pressure on both the nose and main landing gear. The new pressure for the tires is specified as follows:

- 32PSI (2.2 bar) for main landing gear, tires 4.00 – 6
- 28PSI (1.9 bar) for main landing gear, tires 15 x 6.0 – 6
- 28PSI (1.9 bar) for nose landing gear, tires 4.00 – 4

Detach the placards that define the tire pressure and replace them with new placards provided by REMOS.



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### 3. INSTRUCTIONS:

- a. After 800 landings the landing gear carrythrough must be exchanged with a new version provided by REMOS. Contact your local REMOS Service Center to order a new landing gear carrythrough.
- b. Take out the seats and the baggage compartment.
- c. Lift the aircraft so that the main wheels do not have ground contact. Make sure the aircraft is safely jacked.
- d. Detach landing gear belly fairings. To do so detach the hex socket screws of the belly fairings and slide them down the landing gear leg fairing.
- e. Disconnect the brake lines in the rear fuselage that go down to the landing gear (see maintenance manual; chapter 5.1.3.2; pos. 4 in fig. 5-10). Prevent brake fluid from spilling in the fuselage as it may damage the composite fuselage structure.
- f. Take out the main landing gear attachment bolts (see maintenance manual; chapter 5.1.3.2; pos. 10, 11 and 12 in fig. 5-10). Make sure the landing gear does not fall down once the bolts are taken out, support the landing gear.
- g. Take out the landing gear out of the landing gear bay.
- h. Disconnect the landing gear legs from the carrythrough, see maintenance manual, chapter 5.1.3.2, fig. 5-13.
- i. Install the landing gear legs into the new carrythrough. Take care of the correct orientation of the carrythrough: the heads of bolts pos. 7 in fig. 5-13 of the maintenance manual in chapter 5.1.3.2 have to be on the rear side of the carrythrough. You may re-use the nordlock washers, but make sure you use new self securing nuts provided with the service package.
- j. Install the landing gear into the fuselage again according to maintenance manual chapter 5.1.3.2, fig. 5-10. Make sure you use new self securing nuts provided with the service package.
- k. Re-connect the brake lines again. Install the baggage compartment.
- l. Bleed the brake system according to maintenance manual chapter 5.2.5.
- m. Install the seats again.

**REAMOS wishes you safe and fun flights!**

**Always check your aircraft before you fly!**